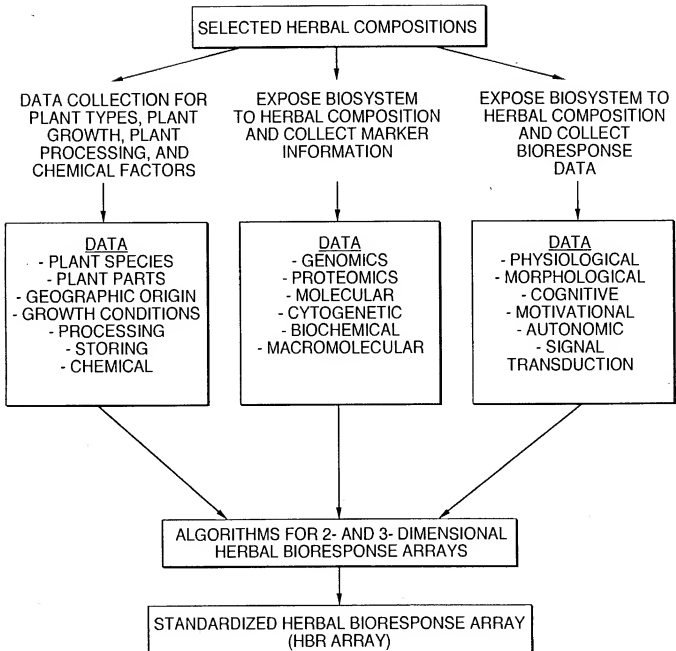
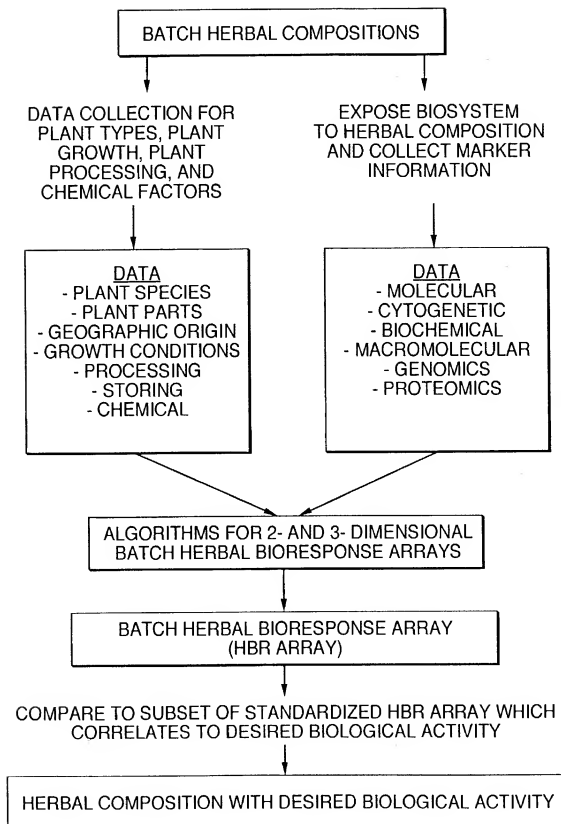


FIG. 1

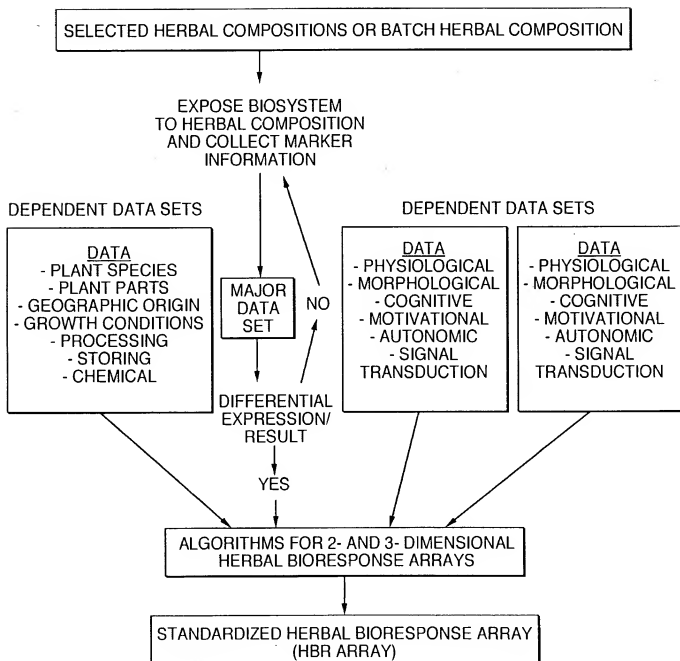


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FIG. 2

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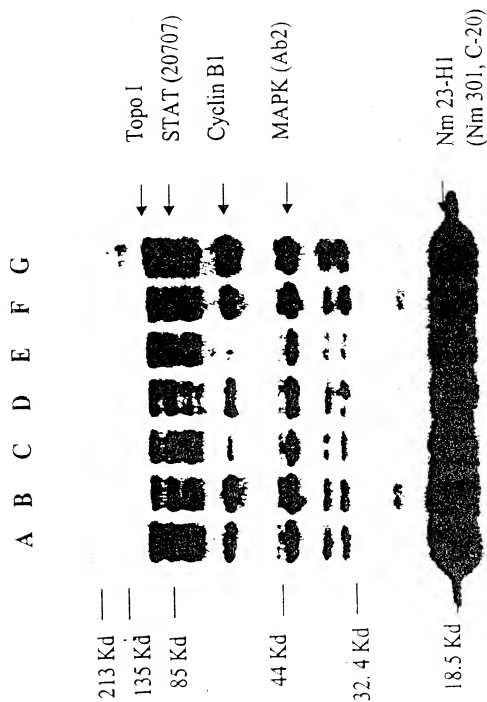
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FIG. 3



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FIG. 4



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FIG. 5

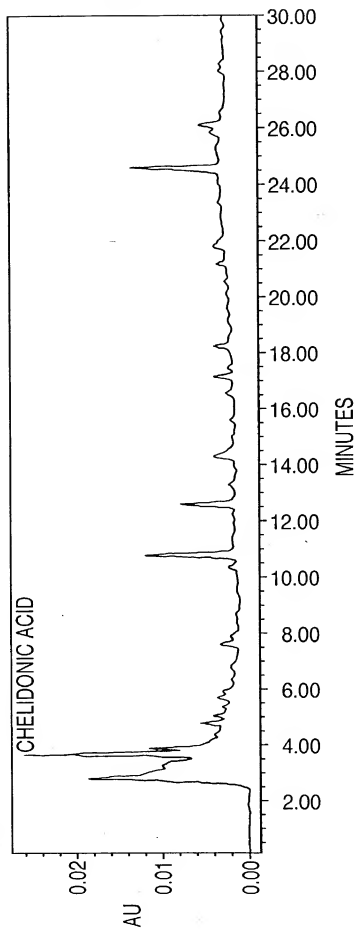
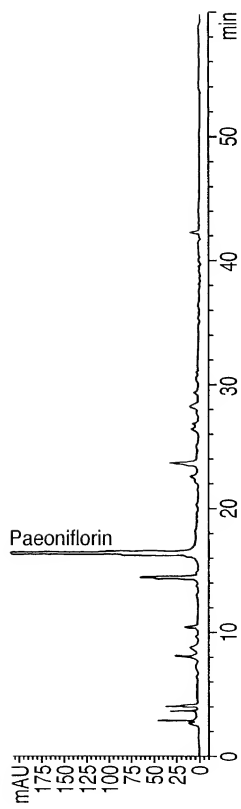


FIG. 6



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FIG. 7

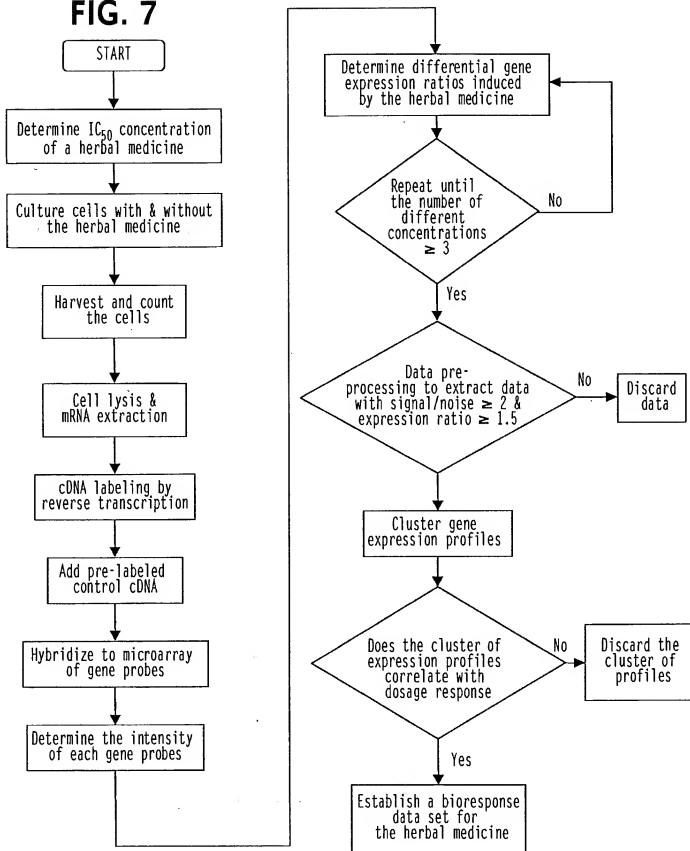
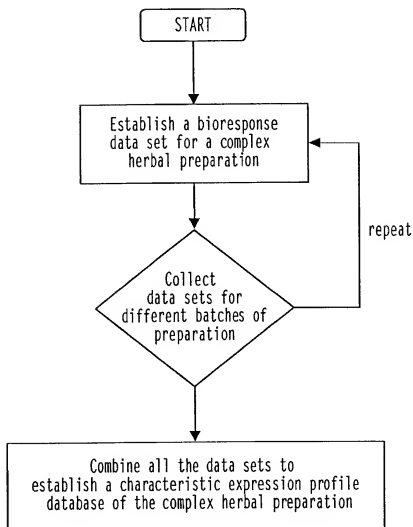
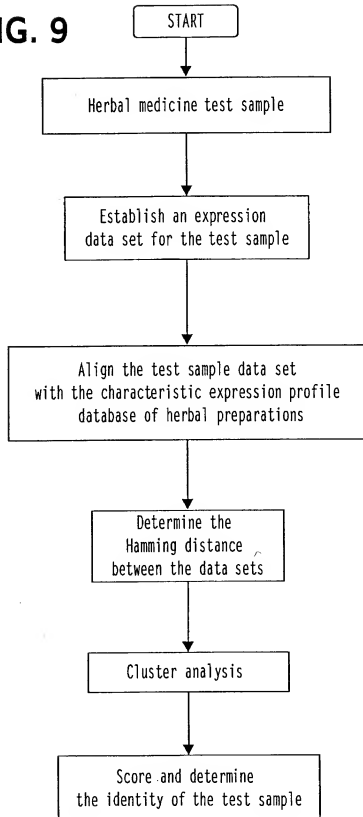


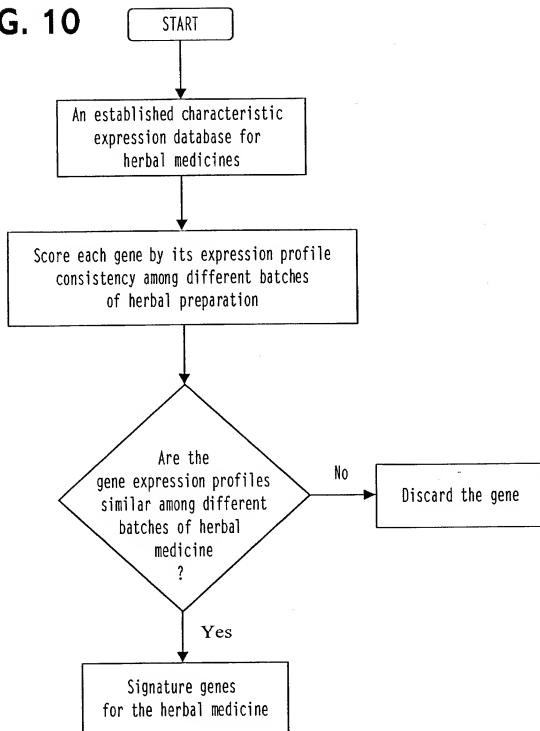
FIG. 8

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FIG. 9

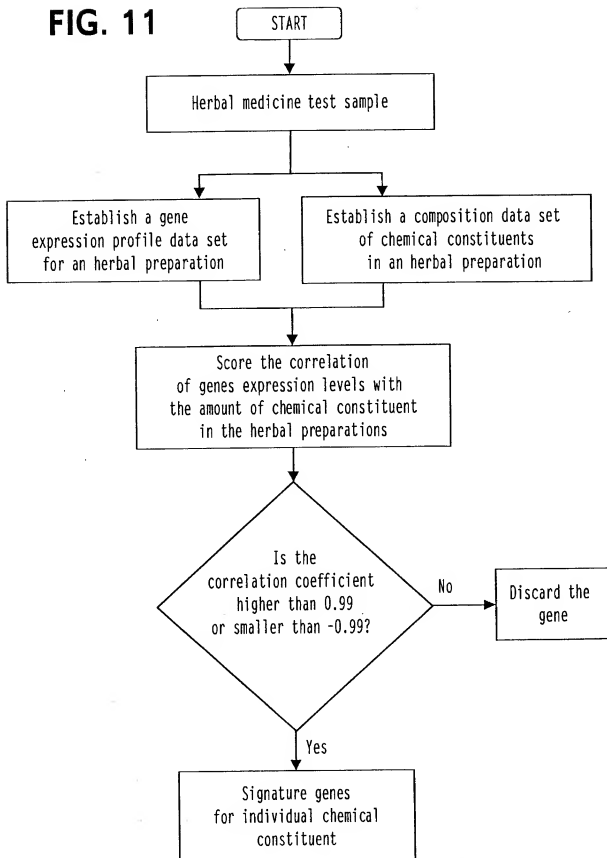
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FIG. 10



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FIG. 11



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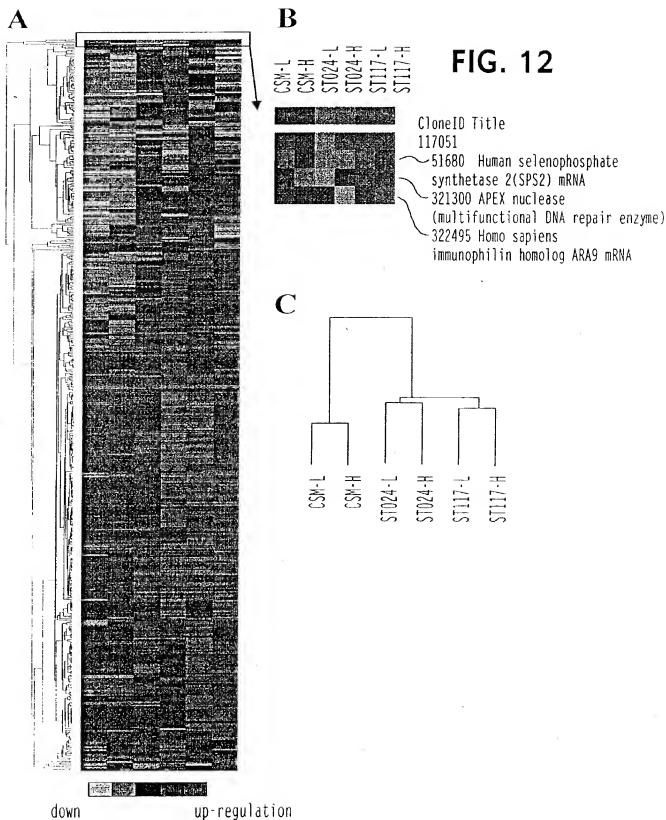
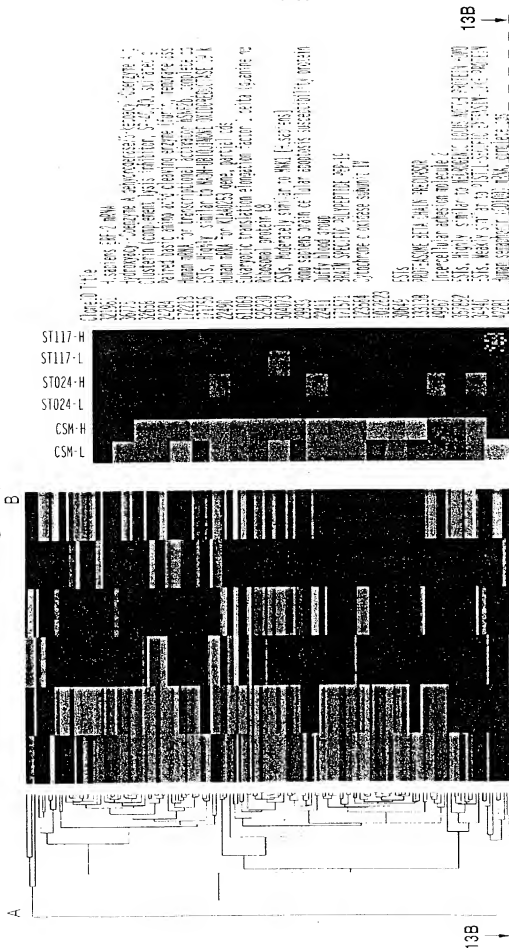


FIG. 12

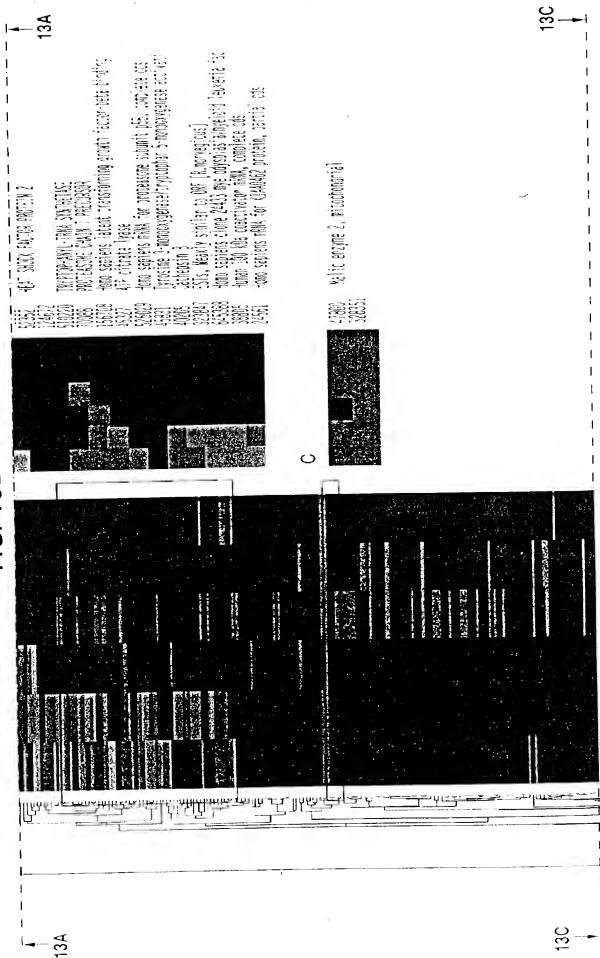
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FIG. 13A
B

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FIG. 13B



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FIG. 14

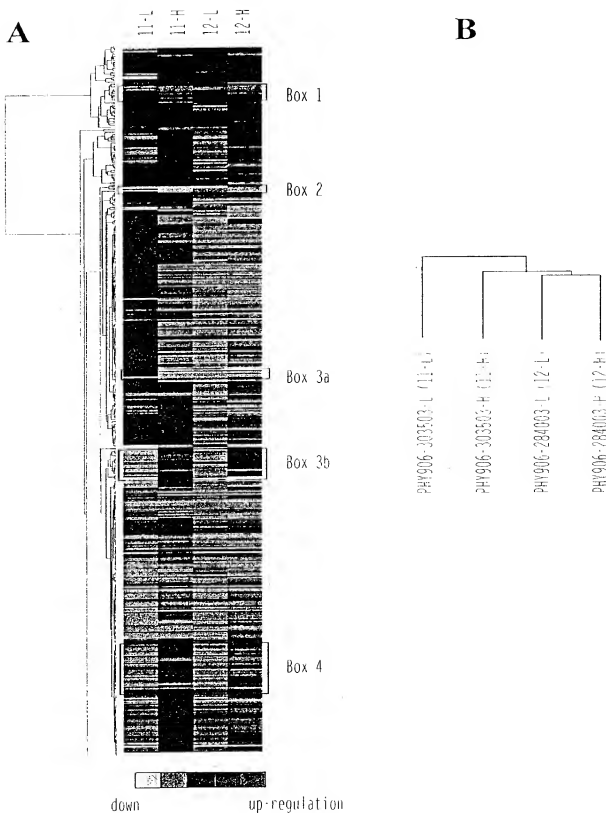


FIG. 15A



11-L-1
11-L-2
11-L-3
11-H-1
11-H-2
11-H-3
12-L-1
12-L-2
12-L-3
12-H-1
12-H-2
12-H-3
control-1
control-2
control-3

GeneID	Title
154958	Isolate-tRNA synthetase
154959	PROPHANTHIN10010
154960	PROPHANTHIN10010
154961	RNA polymerase II polypeptide 8 (140 kD)
154962	RNA polymerase II polypeptide 8 (140 kD)
154963	Human cytosolic RNA for (L1A677) protein, complete cds
154964	Human cytosolic RNA for (L1A677) protein, complete cds
154965	Human cytosolic RNA for (L1A677) protein, complete cds
154966	Human cytosolic RNA for (L1A677) protein, complete cds
154967	Human cytosolic RNA for (L1A677) protein, complete cds
154968	Human cytosolic RNA for (L1A677) protein, complete cds
154969	Human cytosolic RNA for (L1A677) protein, complete cds
154970	Human cytosolic RNA for (L1A677) protein, complete cds
154971	Human cytosolic RNA for (L1A677) protein, complete cds
154972	Human cytosolic RNA for (L1A677) protein, complete cds
154973	Human cytosolic RNA for (L1A677) protein, complete cds
154974	Human cytosolic RNA for (L1A677) protein, complete cds
154975	Human cytosolic RNA for (L1A677) protein, complete cds
154976	Human cytosolic RNA for (L1A677) protein, complete cds
154977	Human cytosolic RNA for (L1A677) protein, complete cds
154978	Human cytosolic RNA for (L1A677) protein, complete cds
154979	Human cytosolic RNA for (L1A677) protein, complete cds
154980	Human cytosolic RNA for (L1A677) protein, complete cds
154981	Human cytosolic RNA for (L1A677) protein, complete cds
154982	Human cytosolic RNA for (L1A677) protein, complete cds
154983	Human cytosolic RNA for (L1A677) protein, complete cds
154984	Human cytosolic RNA for (L1A677) protein, complete cds
154985	Human cytosolic RNA for (L1A677) protein, complete cds
154986	Human cytosolic RNA for (L1A677) protein, complete cds
154987	Human cytosolic RNA for (L1A677) protein, complete cds
154988	Human cytosolic RNA for (L1A677) protein, complete cds
154989	Human cytosolic RNA for (L1A677) protein, complete cds
154990	Human cytosolic RNA for (L1A677) protein, complete cds
154991	Human cytosolic RNA for (L1A677) protein, complete cds
154992	Human cytosolic RNA for (L1A677) protein, complete cds
154993	Human cytosolic RNA for (L1A677) protein, complete cds
154994	Human cytosolic RNA for (L1A677) protein, complete cds
154995	Human cytosolic RNA for (L1A677) protein, complete cds
154996	Human cytosolic RNA for (L1A677) protein, complete cds
154997	Human cytosolic RNA for (L1A677) protein, complete cds
154998	Human cytosolic RNA for (L1A677) protein, complete cds
154999	Human cytosolic RNA for (L1A677) protein, complete cds
155000	Human cytosolic RNA for (L1A677) protein, complete cds

Box 1



1994

33223	Antigen identified by monoclonal antibodies 4E2, TPA-10, TH
33503	NH ₂ -terminal amino acid sequence
6699	General transcription factor IIIA
33343	NH ₂ -terminal amino acid sequence
46243	ESTs, highly similar to 60S RIBOSOMAL PROTEIN L30A [Sacchar
70088	PROTASOME CHAIN 7 PRECURSOR
49569	SERP-TXNA SYNTHETASE
711752	ESTs, weakly similar to IIII1 AND SUBUNIT J MARINUS ENTRY I
565175	RIBOSOMAL protein L27a
493230	ESTs, Moderately similar to MKK1 [a.sacens]
726737	Antigen identified by monoclonal antibodies 4E2, TPA-10, TR
51674	Ferritin heavy chain
45409	Ueshima ribosomal protein 17D

Box 2



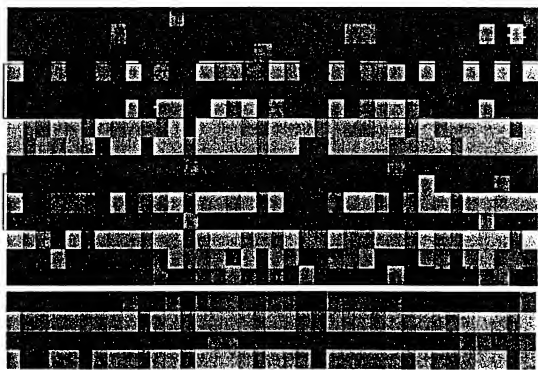
ESTs, weakly similar to PIST1-SPECIFIC EXTENSIN-LIKE PROTEIN
34543
Purified 5-carboxylate synthetase (mTamate campe-sinamide
26706
Human 10-methylglutathione S-transferase (hGSTA1) cDNA, 5'-
3' region
27291
Human 10-methylglutathione S-transferase (hGSTA1) cDNA, 5'-
3' region
27292
ESTs, highly similar to HYPONATRIC 27.5 kD PROTEIN IN SPK
255983
Human 10-methylglutathione S-transferase (hGSTA1) cDNA, 5'-
3' region
321330
P15^{CAV} SPLICING FACTOR SF2, p33 SUBUNIT
321331
Human 10-methylglutathione S-transferase (hGSTA1) cDNA, 5'-
3' region

Box 3



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FIG. 15B



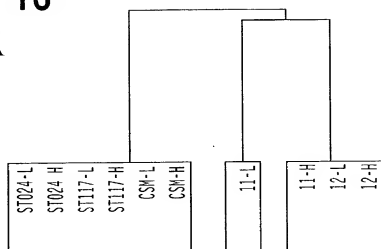
Box 4

40662 CSTS
13274Pregnancy-specific beta 1-glycoprotein 7
235166S1S
321759Plasma carrier family 5 (sodium/glucose cotransporter), memb
5702 glutamic-oxaloacetic transaminase 1, soluble (aspartate amin
2453 Homo sapiens Ranp71/importin 7 mRNA, complete cds
320551Ribosomal protein S4, K-linked
244339NA
530514Trisphosphate isomerase 1
321733Human ribosomal protein S6 mRNA, complete cds
33665 Human siah binding protein 1 (Siah1) mRNA, partial cds
43687 Dextran sulfate-binding protein (G-protein), beta polypep
178569Homo sapiens Na+/H+ exchanger regulatory factor 2 (NHE-2)
232411Decorin, beta, erythrocytic (includes phenocytosis, clivica
44319 Homo sapiens clone 24381 mRNA sequence
51670 P53-binding protein 4 (P50)
43326 ATP-DEPENDENT DNA HELICASE II, 86 KD SUBUNIT
508389Human alpha-tubulin mRNA, complete cds
193880NA
236880NP DEAMINASE 2
236851Ribosomal protein S25
43442 Human ribosomal protein L10 mRNA, complete cds
24117 Homo sapiens clone 23567 unknown mRNA, partial cds
322170SERINE/THIOLENE-PROTEIN KINASE RECEPTOR RS PRECURSOR
236638NA
470082Human BAK1 alpha kinase mRNA, complete cds
985064Human mitochondrial ATP synthase subunit 9, p3 gene copy, m
33993 Human c-1000 PKC1 interferon gamma receptor accessory factor
268150Human chromosome 4 Met homolog Sma1 mRNA, complete cds
52713 NA
114073ESTs, highly similar to mc-associated zinc-finger protein f
53666 ESTs, highly similar to HYPOTHETICAL 23.6 KD PROTEIN 14 v04
261118TP-DEPENDENT DNA HELICASE II, 86 KD SUBUNIT
561340Interferon regulatory factor 5
236714 NA
267763NA

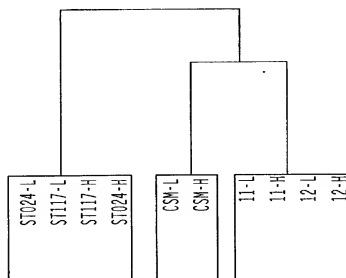
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FIG. 16

A

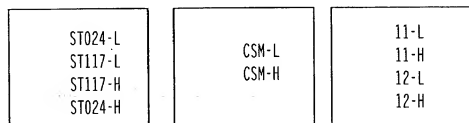


B



C

3-Cluster SOM



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FIG. 18A

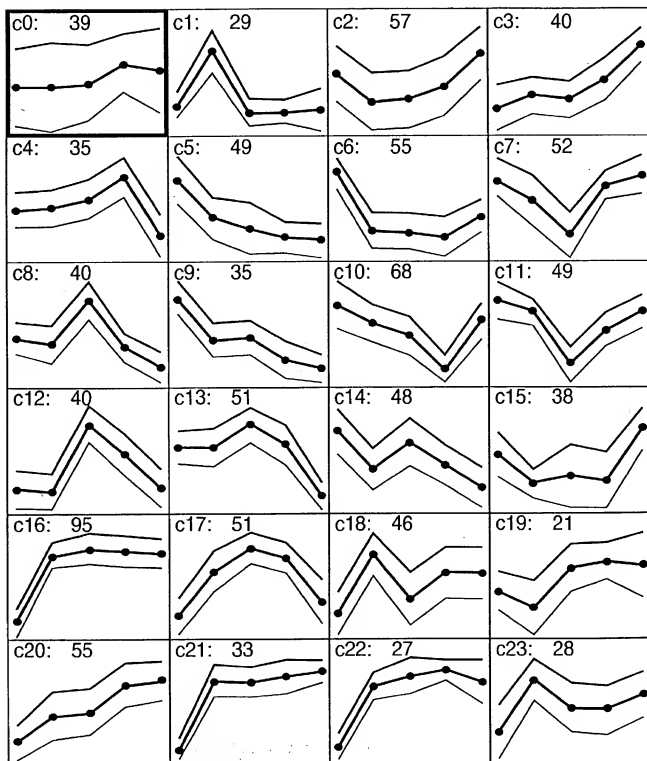
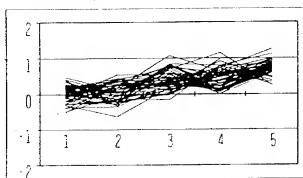
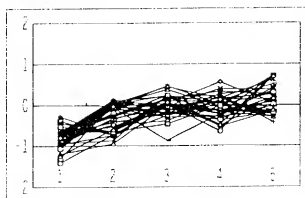


FIG. 18B

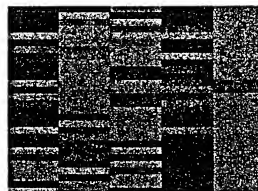
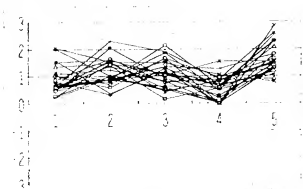
Group A1, c20



Group A1, c3



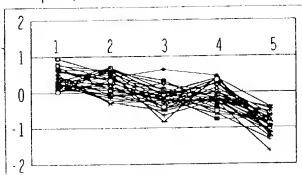
Group A2, c25



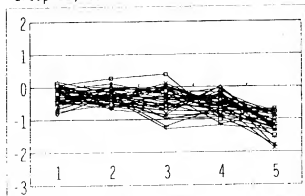
low High concentration →

FIG. 18C

Group B1, c9



Group B1, c5



Group B2, c0

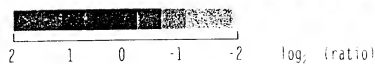
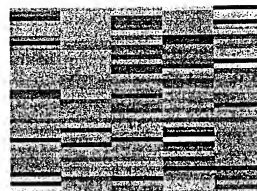
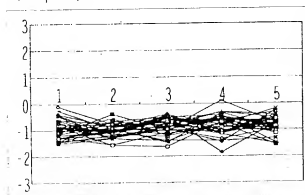


FIG. 19

GROUP	#1	#2	#3
GENE 1	1	1	0
GENE 2	1	1	0
GENE 3	1	1	1
GENE 4	1	1	1
GENE 5	0	0	1
GENE 6	1	0	0
GENE 7	0	1	1
GENE 8	1	0	1
GENE 9	0	0	1
GENE 10	0	0	1
GENE 11	-1	-1	-1
GENE 12	0	0	-1
GENE 13	0	0	-1
GENE 14	-1	-1	-1
GENE 15	-1	0	0
GENE 16	0	-1	0

1: GROUP A GENE
-1: GROUP B GENE
0: NON GROUP A
OR GROUP B

FIG. 20

DISTANCE	#16	#17	#18	#19	#20
#16	0	433	373	601	315
#17	433	0	274	631	367
#18	373	274	0	584	305
#19	601	631	584	0	527
#20	315	367	305	527	0

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A. **FIG. 21**

	BG	B	Gly	Pf	BG+B	BG/B
#16	30.35	4.98	4.69	9.16	35.33	6.09
#17	30.69	5.39	4.39	6.55	36.08	5.69
#18	28.95	4.6	7.73	7.02	33.55	6.29
#19	38.66	3.83	11.66	9.01	42.49	10.09
#20	41.95	3.01	7.33	7.75	44.96	13.94

B.

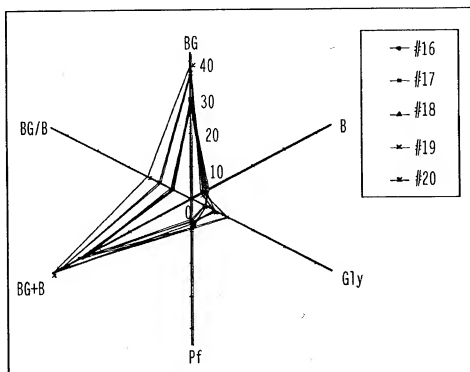


FIG. 22A

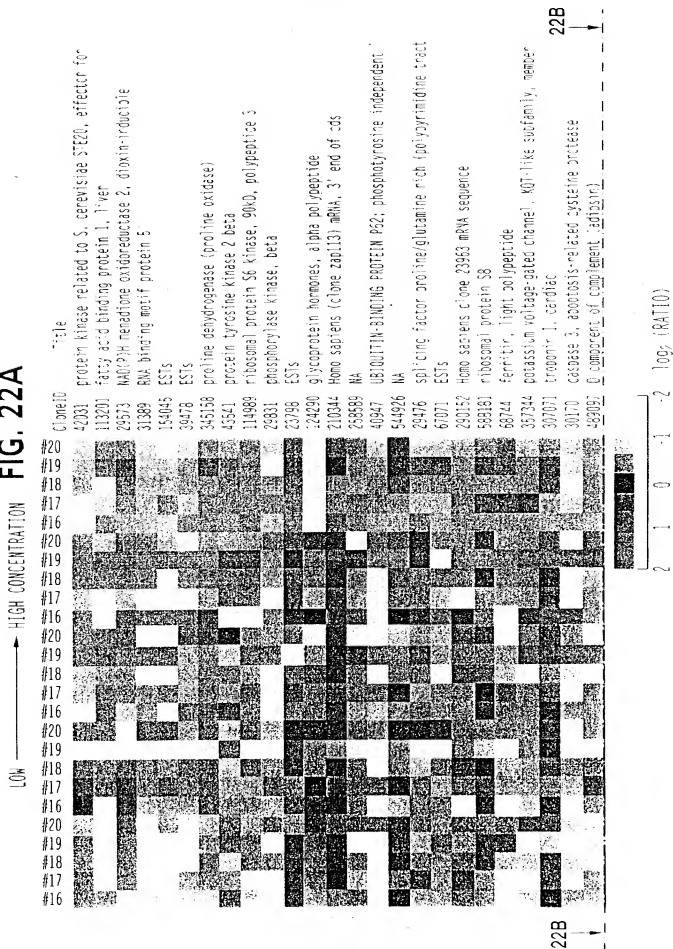
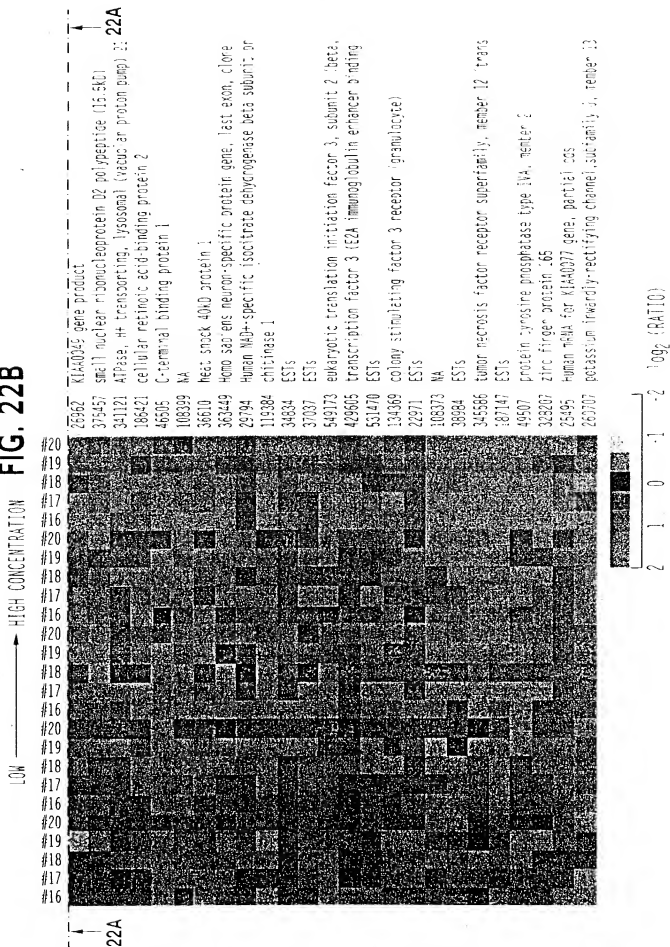


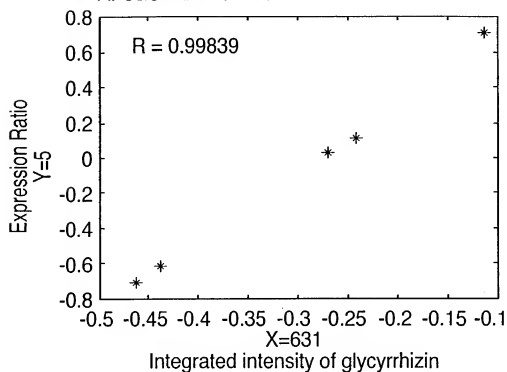
FIG. 22B



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FIG. 23

A. CLONEID: 67185



B. CLONEID: 344720

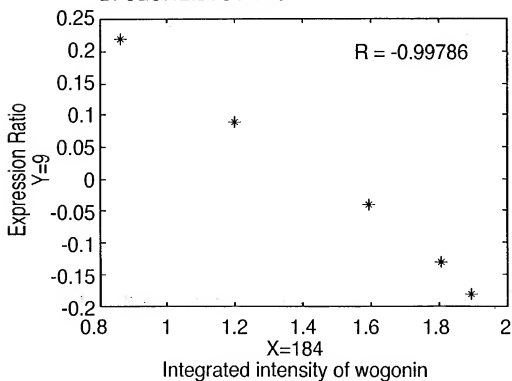


FIG. 24A

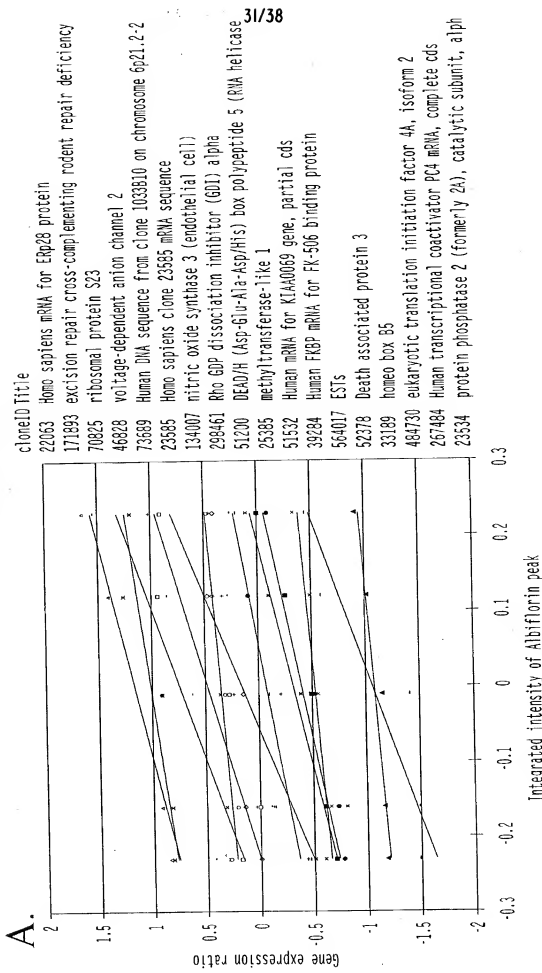
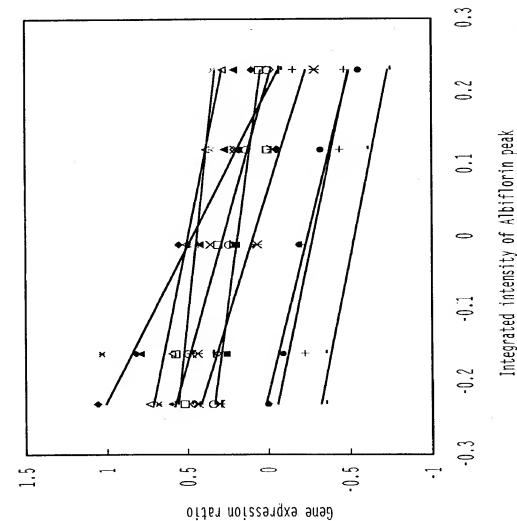


FIG. 24B

B.



100304473 04000000
10/030453

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FIG. 25

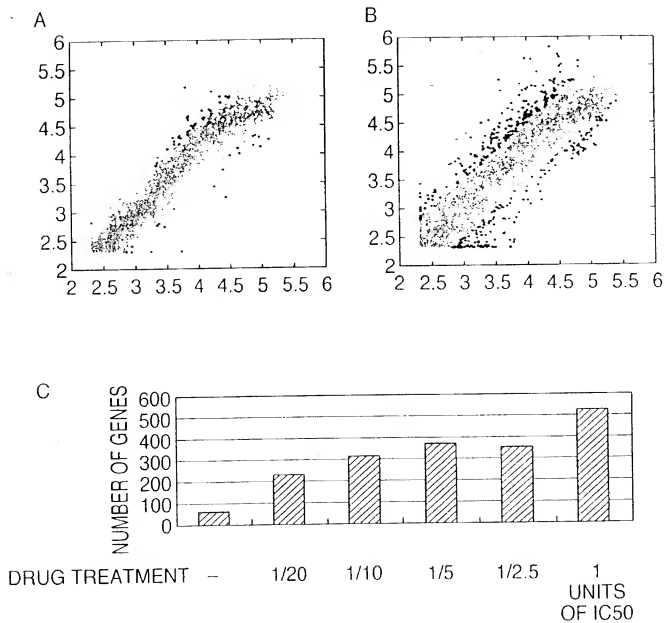
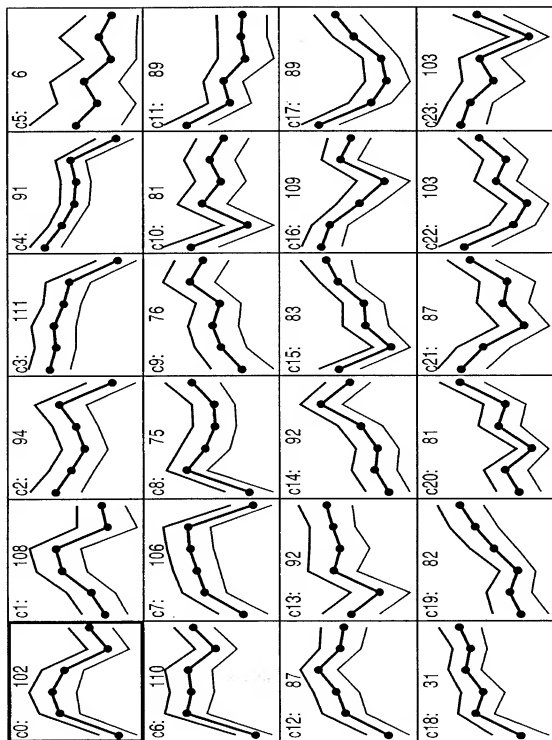
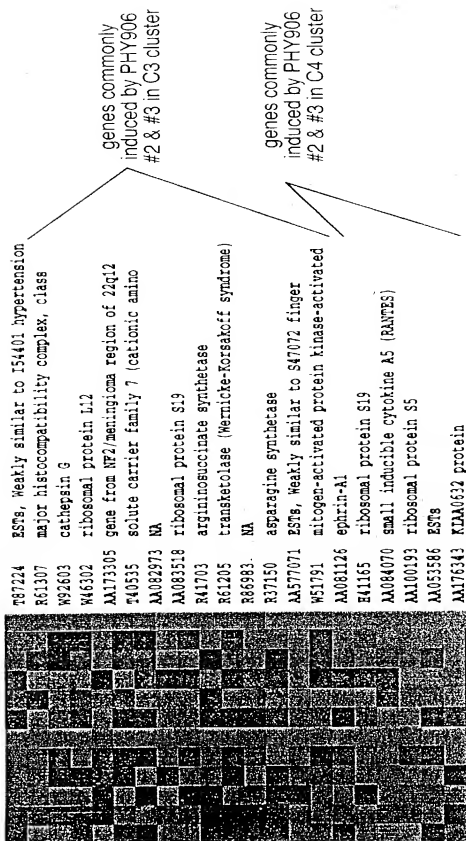


FIG. 26



SOM ANALYSIS OF THE SELECTED 1044 GENES FOR PHY906 #2

FIG. 27A



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FIG. 27B

AA070029 methionine adenosyltransferase II
 AA084703 DEAD/8 (Asp-Glu-Ala-Asp/Eis) box
 AA069915 interleukin 18 binding protein
 AA054651 membrane protein, palmitoylated 2
 W15314 chromobox homolog 3 (Drosophila)
 E18448 DEAD/8 (Asp-Glu-Ala-Asp/Eis) box
 W61113 annexin A1
 W96058 heterogeneous nuclear
 AA533085 high-mobility group (nonhistone)
 E05269 DEAD/8 (Asp-Glu-Ala-Asp/Eis) box
 W78112 SON DNA binding protein
 E11720 splicing factor, arginine/serine-rich
 R43478 zinc finger protein 207
 E05666 nucleolin
 AA085849 CGI-119 protein
 R39175 minichromosome maintenance deficient
 R39599 heterogeneous nuclear ribonucleoprotein
 R30921 ESTs, highly similar to endothelial
 R67539 ribophorin II
 W34123 S100 calcium-binding protein, beta
 E99971 endothelial PAS domain protein 1
 W63807 EST
 AA150945 chaperonin containing TCP1, subunit
 E05678 guanine nucleotide binding protein
 R38977 heat shock 70kD protein 98
 R41331 karyopherin (importin) beta 3
 N90281 B7 protein
 R37755 chaperonin containing TCP1,
 ESTs
 R41913 ESTs

genes commonly
induced by PHY906
#2 & #3 in C18 cluster

genes commonly
induced by PHY906
#2 & #3 in C19 cluster

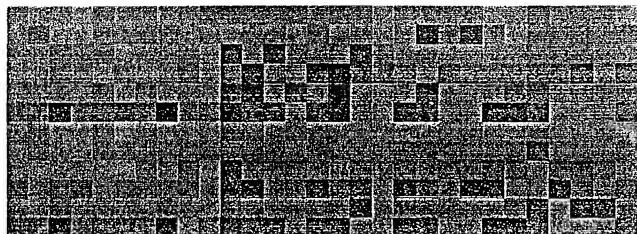
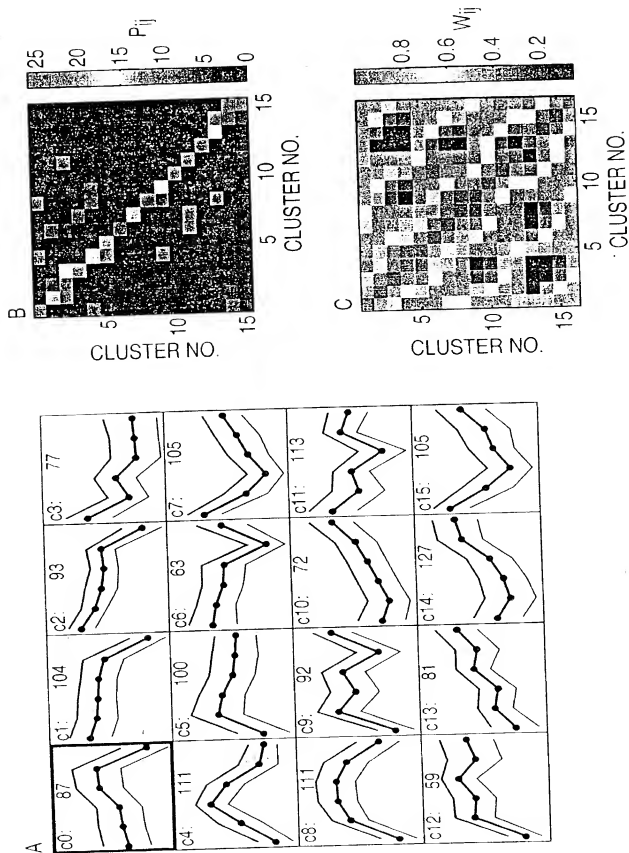


FIG. 28



DISTANCE	#16	#17	#18	#19	#20
#16	1	0.812	0.78	0.713	0.718
#17	0.812	1	0.864	0.764	0.811
#18	0.78	0.864	1	0.775	0.666
#19	0.713	0.764	0.775	1	0.673
#20	0.718	0.811	0.666	0.673	1

```

graph LR
    Root --- Node1
    Node1 --- #19
    Node1 --- Node2
    Node2 --- #20
    Node2 --- Node3
    Node3 --- #16
    Node3 --- Node4
    Node4 --- #18
    Node4 --- #17
  
```